

ENZYME ELECTRODE AND ITS MANUFACTURE

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Abstract of JP55010584

PURPOSE:To secure a quick and simple measurement of the substrate density as well as to ensure the continuous and repetitive use of the enzyme electrode by securing the double-lamination structure and thus giving the electrochemical activity to the substrate which suffers the peculiar catalyst function of the enzyme. **CONSTITUTION:**The electron conducting material such as the graphite powder is well mixed with the insoluble redox compound like chloranil. Then the oxidoreductase like glucose oxidase is fixed to such mixture via the bridging reagent like glutaric aldehyde. The 2nd layer 2 composed of a small amount of the mixture of the electron conducting material, the insoluble redox compound and the fixed enzyme is unified with 1st layer 1 composed of the electron conducting material through the press formation and other methods. In such way, the enzyme electrode can be made of the minimum necessary amount of enzyme and the insoluble redox compound.

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